

**ARIZONA GAME AND FISH DEPARTMENT
HABITAT PARTNERSHIP COMMITTEE
HABITAT ENHANCEMENT AND WILDLIFE MANAGEMENT PROPOSAL**

Game Branch / HPC Project Number: 13-407

PROJECT INFORMATION

Project Title: Redevelopment of Water Catchment #519

Region and Game Management Unit: Region 4 / GMU 44B South

Local Habitat Partnership Committee (LHPC):
• SW HPC

Was the project presented to the LHPC?
YES[X] NO[]

Has this project been submitted in previous years? YES[X] NO[]

If Yes, was it funded? YES[] NO[X] → **HPC Project #:**

Project Type: Water Catchment Redevelopment

Brief Project Summary: Existing development is a 10,000 gallon metal ring tank with vinyl liner, corrugated sheet metal apron and float valve drinker. Proposal is to remove the ring tank, roof section and drinker and replace with 10,000 gallon underground 24" PVC storage, walk in drinking trough and increase corrugated apron by 100% and add 400' of pipe rail fence.

Big Game Wildlife Species to Benefit: Mule Deer and Bighorn Sheep

Implementation Schedule (Month/Day/Year):

Project Start Date: 02/01/2015

Project End Date: 05/31/2015

Environmental Compliance:

NEPA Completed: YES[X] No[x] N/A[]

Projected Completion Date: BLM issued Cat-ex 2013

State Historic Preservation Office - Archaeological Clearance:

YES[X] No[] N/A[]

Projected Completion Date: by BLM

Arizona Game and Fish Department EA Checklist: N/A[]

To be Completed by: Deanna Pfleger/Dave Conrad

Projected Completion Date: January 2014

PROJECT FUNDING

Special Big Game License Tag Funds Requested: \$ 25322

Cost Share or Matching Funds: \$ 5254

Total Project Costs: \$ 30576

PARTICIPANT INFORMATION

Applicant (please print):
Deanna Pfleger

Address:
9140 E. 28th Street
Yuma, AZ 85365

E-mail:
dpfleger@azgfd.gov

Telephone: 928-916-2004

Date: 08/25/2011

AGFD Contact and Phone No. (If applicant is not AGFD personnel):

Project has been coordinated with: Erica Stewart, Biologist (BLM Yuma Field Office); SW Hunting Adventures; Ed Jarhke (AZGFD Development)

NEED STATEMENT – PROBLEM ANALYSIS:

Development #519 was constructed in the early 1960s to benefit mule deer and has not been redeveloped since that time with the exception of a pool cover being installed in the mid 1990s to reduce evaporative loss. In the past 5 years this development has been hauled to regularly at least once each summer. Further, the fill-hole between the valve box and the drinker is set rather high and requires regular adjustment of the float valve to ensure the water level in either section of the trough is at the appropriate level. An onsite analysis by WMS Dave Conrad suggests that the apron is not currently a large enough surface area to adequately fill the storage during typical rainfall events in this area. Camera trap data shows heavy summer use by mule deer and some bighorn sheep.

By converting this catchment to a buried PVC system, widening the apron surface area, and adding a walk-in drinker this wildlife water should function more efficiently and require less maintenance and hauling.

PROJECT OBJECTIVES:

Reduce long-term maintenance cost by increasing the collection capacity and reliability of a well-used water catchment which serves both a local mule deer and bighorn sheep population in the New Water mountains in GMU 44B south.

PROJECT DESCRIPTION AND STRATEGIES:

Remove an existing ring tank, metal tank cover, barbwire fence and cement drinking trough and replace with a buried PVC system, expand the surface area of the existing metal apron (may be able to use some of the salvaged steel roof sections), add a walk-in trough and enclose with a wildlife friendly pipe rail fence.

PROJECT LOCATION:

New Water Mountains, La Paz County, AZ (T.3N, R.17W S12; 33° 36.145N 113° 58.218W)

LAND OWNERSHIP AT PROJECT SITE (Please state specifically if PRIVATE PROPERTY and provide landowner's name):

U.S. Bureau of Land Management (Yuma Field Office)

*IF PRIVATE PROPERTY, IS THERE A STEWARDSHIP or LANDOWNER
AGREEMENT BETWEEN THE LANDOWNER AND THE DEPARTMENT?
YES[] NO[]*

HABITAT DESCRIPTION:

The New Water Mountains have elevations ranging from 1800' near the base to 3639' at Black Mesa. The topography ranges from gentle bajadas and rolling hills to high benches, rugged cliffs, and ridges. Both Upper and Lower Sonoran desert scrub plant communities are represented in the proposal area. The next nearest perennial wildlife water is 2.07 miles to the west northwest (Nasca Tank).

ITEMIZED USE OF FUNDS:

Special Big Game License Tag Funds

Materials:

Item	Description	Qty	Cost
PVC Water Storage	24" diameter x 100'	4 @ \$3,325ea	\$13300
Precip collection Apron	24'x96' (some material may be salvageable from existing system)		\$7322
Wildlife 'Friendly' fence	Circular pipe rail fence (radius of 75')	475 linear ft	\$2900
Plumbing	Misc fittings (no collection point run)		\$1000
Trough	36" Mule Deer walk-in or similar trough (off contract)		\$800
Total Tag Fund Project Cost			\$25,322

Cost Share or Matching Funds

Backhoe and Operator	Donated Backhoe & Operator (John Deere 310G 4x4 or equivalent, 4 days total) (SW Hunting Adventures)	4 days with operator	\$1924
Volunteer Labor	\$183/day	20 man days	\$3330
Total Cost Share/Match			\$5254

LIST COOPERATORS AND DESCRIBE POTENTIAL PARTICIPATION:

AGFD Region IV in conjunction with Habitat Branch and BLM personnel have begun the necessary environmental clearances for the project. AGFD Region IV will provide construction coordination including transport of necessary tools and material to and from the project area. Volunteers from Southwest Hunting Adventures will provide a backhoe/operator and volunteers.

WOULD IMPLEMENTATION OF THIS PROJECT ASSIST IN PROVIDING, MAINTAINING, OR FACILITATING RECREATIONAL ACCESS?

YES[] NO[] N/A[X]

PROJECT MONITORING PLAN:

AGFD Region IV will monitor water levels according to the Regional water development protocol.

PROJECT MAINTENANCE:

AGFD Region IV will perform routine maintenance checks and assess performance during regular water monitoring activities.

PROJECT COMPLETION REPORT TO BE FILED BY:

Deanna Pfleger, AZGFD Region IV

ARIZONA GAME AND FISH DEPARTMENT

VOLUNTEER HOURLY RATES AND CLASSIFICATIONS WORKSHEET

PROJECT TITLE: Redevelopment of Water Catchment #519

The value of volunteer labor should be calculated at the hourly rate of an employee doing similar work, or using hourly rates from the Arizona Department of Administration's Human Resource web site, plus a standard ERE rate of 35%. http://www.hr.az.gov/HR_Professional/Class_Comp/PDF/alphacovered.pdf

\$0.445/mile should be the calculation used for mileage.

Water Development	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
#519	160	2400	\$14.14	\$3330
Habitat Restoration and Clean Up	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Fisheries	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Nongame Branch Project	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Misc/office work	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			varies	
Community Services	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$7.44	
Events and Other	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Research Branch	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$14.14	
Wildlife Area Hosts	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$17.44	
Education Programs	Volunteer Hours	Volunteer Miles	Hourly Rate	Estimated Value
			\$16.07	
Totals				

ARIZONA GAME AND FISH DEPARTMENT

WATER DEVELOPMENT WORKSHEET

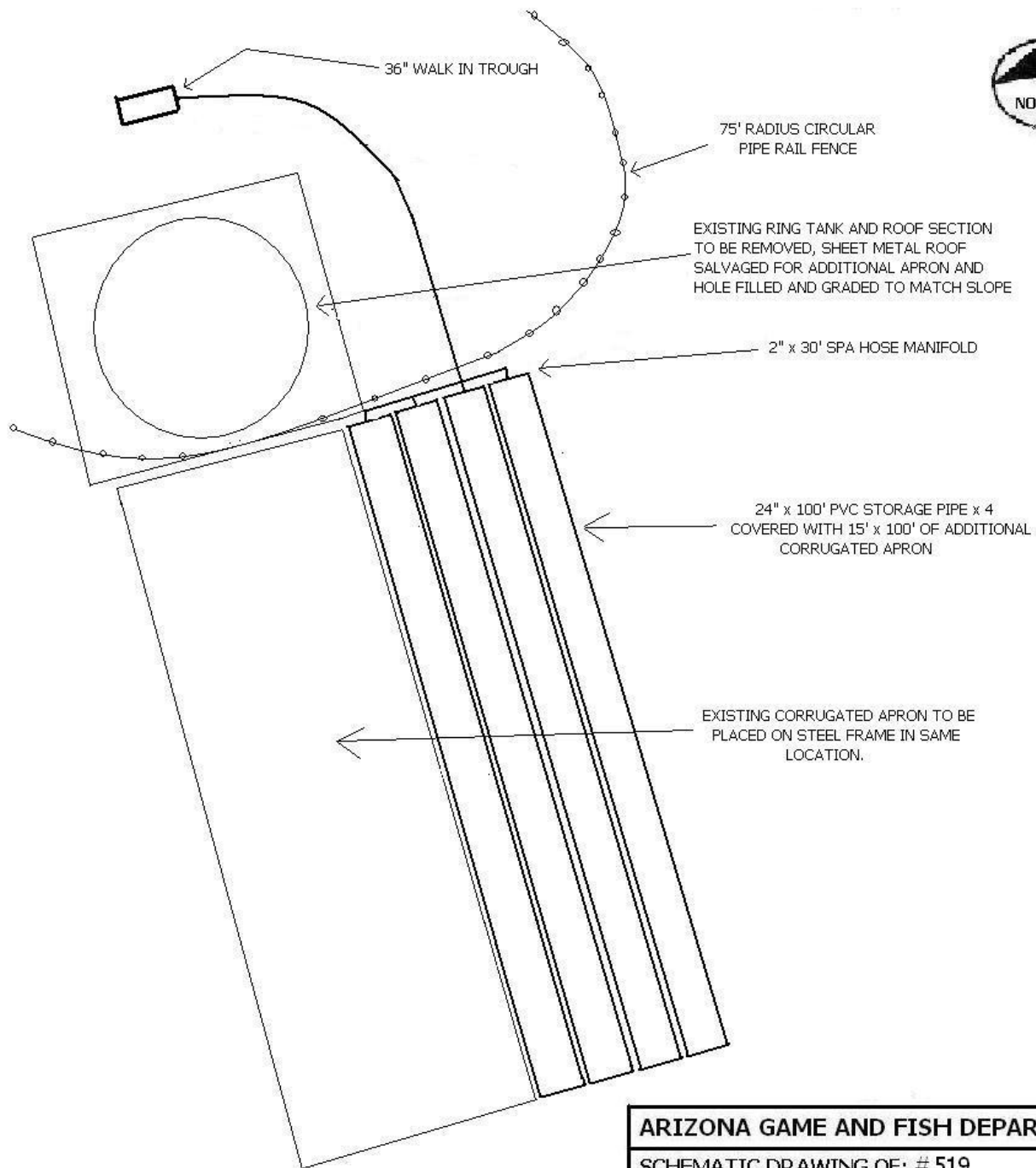
PROJECT NAME: Redevelopment of New Waters Mountain #2 Water Catchment (#519)

- 1) **Is the water development listed as a priority in the most recent “Wildlife Water Development Annual Implementation Schedule?”** YES
- 2) **Please list the Development Branch personnel and date coordinated with for this project.**
Ed Jahrke 8/26/2013, Joe Curry site visit 4/26/2013
- 3) **What is the estimated annual inches of precipitation for the area? (mark one)**
☐2-4 ☒4-6 ☐6-8 ☐8-10 ☐10-12 ☐12-14 ☐14-16 ☐ >16
- 4) **Is there a perennial water source available to big game within four miles of this project?**

YES☒ (please complete #5 below) NO☐ (skip #5 below)
- 5) **For the accessible, perennial water source nearest this project:**
Name of water source: Nasca Tank
Type of water source: catchment
Ownership of water source: AZGFD
Distance in miles from project: 2.07mi
- 6) **Is the target wildlife species a result of transplant efforts?** YES☐ NO☒
- 7) **Please list any special land management status for the project site (i.e. Wilderness, National Park, National Monument). If private land, list landowner.**
None
- 8) **Please provide the following information about access to the proposed site:**
Type of access (mark one): ☐2x4 vehicles ☒4x4 only ☐foot only**
**If foot access only: Distance in miles: _____ Approximate hiking time: _____

-- Does access to this site require crossing private or tribal lands? YES☐ NO☒

-- Please describe any restrictions to public access: NONE
- 9) **Please list below (or on a separate sheet) the material type and dimensions of each component proposed to be added, modified, or repaired.**
See schematic drawing
- 10) **Was a site visit completed?** Yes☒ No☐
If Yes, please list personnel that attended and date.
8/11/2011 D. Pfleger & D. Conrad
4/26/2013 D. Pfleger & J. Currie



ARIZONA GAME AND FISH DEPARTMENT

SCHEMATIC DRAWING OF: # 519

N 33 36.14 W 113 58.22

LA PAZ COUNTY, ARIZONA

BY	DAVE CONRAD	DATE	8-26-11
----	-------------	------	---------

